

L Number	Hits	Search Text	DB	Time stamp
1	108770	"sheet metal"	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:35
2	1786906	tube or pipe or conduit or hose	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:35
3	36765	"sheet metal" and (tube or pipe or conduit or hose)	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:36
4	207018	tab	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:36
5	163566	punch\$3	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:36
6	15766	tab and punch\$3	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:36
7	915	("sheet metal" and (tube or pipe or conduit or hose)) and (tab and punch\$3)	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:36
8	491	83/54.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:37
9	0	((("sheet metal" and (tube or pipe or conduit or hose)) and (tab and punch\$3)) and 83/54.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:37
10	10	83/54.ccls. and ("sheet metal" and (tube or pipe or conduit or hose))	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:39
11	205	72/51.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:39
12	15	("sheet metal" and (tube or pipe or conduit or hose)) and 72/51.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:40
13	339	138/156.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41
14	577	29/557.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:40
15	12	("sheet metal" and (tube or pipe or conduit or hose)) and 29/557.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:40
16	720	29/558.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41
17	5	("sheet metal" and (tube or pipe or conduit or hose)) and 29/558.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41
18	197	138/166.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41
19	147	138/167.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41
20	190	138/168.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/05/10 11:41

Selected file: INPADOC

You are now connected to INPADOC
Covers 1968/1973 thru weekly updates (2003-46)

** SE 1: Results 5

1 / 5 INPADOC - @INPADOC

PN - AT 198170 E 20010115 [ATE198170]
TI - VERBINDUNG FUER BLECHRAENDER SOWIE VORRICHTUNG HIERZU
IN - HARDT PETER [DE]
PA - SCHMOLZ & BICKENBACH [DE]
AP - AT 95107161/95-EP 19950511 [1995EP-0107161]
PR - DE 4443842/94-A 19941209 [1994DE-4443842]
IC - B21D-039/03

2 / 5 INPADOC - @INPADOC

PN - DE 59508910 C0 20010125 [DE59508910]
TI - VERBINDUNG FUER BLECHRAENDER SOWIE VORRICHTUNG HIERZU
IN - HARDT PETER [DE]
PA - SCHMOLZ & BICKENBACH [DE]
AP - DE 59508910/95-A 19950511 [1995DE-5008910]
PR - DE 59508910/95-A 19950511 [1995DE-5008910]
DE 4443842/94-A 19941209 [1994DE-4443842]
IC - B21D-039/03

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PN - EP 715910 B1 20001220 [EP-715910]
TI - CONNECTION FOR SHEET-METAL EDGES AND APPARATUS THEREFORE
LA - GER
IN - HARDT PETER [DE]
PA - SCHMOLZ & BICKENBACH [DE]
AP - EP 95107161/95-A 19950511 [1995EP-0107161]
PR - DE 4443842/94-A 19941209 [1994DE-4443842]
IC - B21D-039/03
DS - AT* BE* CH* DE* DK* ES* FR* GB* GR* IE* IT* LI* LU* NL* PT* SE*

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PN - EP 715910 A1 19960612 [EP-715910]
TI - CONNECTION FOR PLATE EDGES AND METHOD AND APPARATUS THEREFOR
LA - GER
IN - HARDT PETER [DE]
PA - SCHMOLZ & BICKENBACH [DE]
AP - EP 95107161/95-A 19950511 [1995EP-0107161]
PR - DE 4443842/94-A 19941209 [1994DE-4443842]
IC - B21D-039/03
DS - AT* BE* CH* DE* DK* ES* FR* GB* GR* IE* IT* LI* LU* NL* PT* SE*
WXR - 1996-269803 (G)

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PN - DE 4443842 A1 19960613 [DE4443842]
TI - VERBINDUNG FUER BLECHRAENDER SOWIE VERFAHREN UND VORRICHTUNG
HIERZU
IN - HARDT PETER [DE]
PA - SCHMOLZ & BICKENBACH [DE]
AP - DE 4443842/94-A 19941209 [1994DE-4443842]
PR - DE 4443842/94-A 19941209 [1994DE-4443842]

IC - F16B-005/07; B21D-039/03

Selected file: WPAT

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** SS 1: Results 1

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AN - 1996-269803 [28]

XP - N1996-226754

TI - Metal plate edge connection - has row of holes cut through overlapping edges with connecting tabs in foot area which extends perpendicular to longitudinal extension of area

DC - P52

PA - (SCHM-) SCHMOLZ & BICKENBACH

IN - HARDT P

NP - 4

NC - 16

PN - EP-715910 A1 19960612 DW1996-28 B21D-039/03 Ger 14p *

AP: 1995EP-0107161 19950511

DSR: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DE4443842 A1 19960613 DW1996-29 F16B-005/07 12p

AP: 1994DE-4443842 19941209

EP-715910 B1 20001220 DW2001-05 B21D-039/03 Ger

AP: 1995EP-0107161 19950511

DSR: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DE59508910 G 20010125 DW2001-07 B21D-039/03

FD: Based on EP-715910

AP: 1995DE-5008910 19950511; 1995EP-0107161 19950511

PR - 1994DE-4443842 19941209

CT - EP--29415; EP-383993; GB-978554; US3010199; US3129489

IC - B21D-039/03 F16B-005/07

AB - EP-715910 A

Two or more metal layers overlap in the edge area. A number of holes is cut through both layers. At least one first tab of one metal layer remains connected to it in the foot area. This area extends mainly at right angles to the longitudinal extension of the edge area, and is bent mainly through 180 deg. The first tab engages indirectly under its metal layer, via the other metal layer.

A second tab is congruent with the first one, and it also remains connected to its metal layer. It extends and is bent similarly to the first tab. It is bent backwards onto its own metal layer, and clamped by the first tab.

USE/ADVANTAGE - For connection of e.g. pipes, flat plates, etc.

It is flexible, quick, low-cost, quiet, using few tools, and with low losses. Environmentally friendly. (Dwg.1/13)

UP - 1996-28

UE - 1996-29; 2001-05; 2001-07

Session finished: 21 NOV 2003 Time 16:22:09

QUESTEL.ORBIT thanks you. Hope to hear from you again soon.